

Form PTO-1449

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary) APR 01 2002



Docket Number 432722002601

Application Number 10/050,425

Applicant

Gregory R. MUNDY et al.

Filing Date January 15, 2002

Group Art Unit 1600

Mailing Date March 22 2002

1651

RECEIVED

APR 03 2002

TECH CENTER 1600/2900

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
RG	1.		09/096,631				June 12, 1998
	2.	8/1988	4,761,471	Urist	530	350	
	3.	1/1994	5,280,040	Labroo et al.	514	457	
	4.	12/1996	5,580,854	Orlowski et al.	514	18	
	5.	3/1998	5,728,844	Muller et al.	548	472	
	6.	6/1998	5,767,152	Nielsen et al.	514	526	
	7.	7/1998	5,780,454	Adams et al.	514	64	
	8.	10/1998	5,824,643	Pierce et al.	514	12	
	9.	6/1999	5,910,497	Durette et al.	514	253	
✓	10.	7/2000	6,083,690	Harris et al.	435	6	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
RG	11.	10/1990	WO 90 11366	WIPO			
	12.	3/1992	WO 92 03125	WIPO			
	13.	10/1993	WO 93 20859	WIPO			
	14.	9/1995	WO 95 24211	WIPO			
	15.	9/1995	WO 95 25533	WIPO			
	16.	12/1996	WO 96 38590	WIPO			
	17.	3/1997	WO 97 09315	WIPO			
	18.	5/1997	WO 97 15308	WIPO			
	19.	7/1997	WO 97 23457	WIPO			
	20.	10/1997	WO 97 38699	WIPO			
	21.	12/1997	WO 97 48694	WIPO			
	22.	4/1998	WO 98 17267	WIPO			
✓	23.	6/1998	WO 98 25460	WIPO			

EXAMINER:

RG Grommer

DATE CONSIDERED:

6/25/03

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)					Docket Number 432722002601	Application Number 10/050,425
APR 01 2002 U.S. PATENT & TRADEMARK OFFICE KC7					Applicant Gregory R. MUNDY et al.	
					Filing Date January 15, 2002	Group Art Unit 1666
					Mailing Date March 22, 2002	

<i>RG</i>	24.	1/2000	WO 0002548	WIPO	/	/	<i>TECH CENTER 1600/2900</i>
	25.	10/1998	DE 197 16 713	Germany	/	/	
	26.	7/1999	EP 0 931 544	Europe	/	/	
	27.	4/1993	JP 05 097697	Japan	/	/	

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
<i>RG</i>	28.	Abu-Amer et al., "NF- κ B and Bone: The Breaking Point," NATURE MEDICINE (1997) 3(11):1189-1190
	29. ✓	Adams, J. et al., "Proteasome Inhibitors: A Novel Class of Potent and Effective Antitumor Agents," CANCER RES (1999) 59:2615-2622
	30.	Adams et al., "Chapter 28. Novel Inhibitors of the Proteasome and their Therapeutic Use in Inflammation," ANNUAL REPORTS IN MEDICINAL CHEMISTRY (1996) 279-288
	31.	Ahmed et al., "Alopecia Universalis Associated with a Mutation in the Human Hairless Gene," SCIENCE (1998) 279:720-724
	32.	Bangham et al., "Diffusion of Univalent Ions Across the Lamellae of Swollen Phospholipids," J MOL BIOL (1965) 23:238-252
	33.	Barnes et al., "Nuclear Factor - κ B - A Pivotal Transcription Factor in Chronic Inflammatory Diseases," NEW ENGL J MED (1997) 336:1066-1071
	34.	Baumeister et al., "The Proteasome:Paradigm of a Self-Compartmentalizing Protease," CELL(1998) 92:367-380
	35.	Beck et al., "Rapid Publication TGF- β ₁ Induces Bone Closure of Skull Defects," J BONE MINER RES (1991) 6(11):1257-1265
	36.	Bellows et al., "Determination of the Capacity for Proliferation and Differentiation of Osteoprogenitor Cells in the Presence and Absence and Absence of Dexamethasone," DEVELOP BIOL (1990) 140:132-138
	37.	Blessing et al., "Transgenic Mice as a Model to Study the Role of TGF- β -Related Molecules in Hair Follicles," GENES AND DEVELOP (1992) 7:204-215
	38.	Burgener et al., "Fluoride Increase Tyrosine Kinase Activity in Osteoblast-like Cells: Regulatory Role for the Stimulation of Cell Proliferation and Pi Transport Across the Plasma Membrane," J BONE MINER RES (1995) 10:164-171
	39.	Caplan, "Mesenchymal Stem Cells" J ORTHOP RES (1991) 9:641-650
✓	40.	Casez et al., "Dual-Energy X-Ray Absorptiometry for Measuring Total Bone Mineral Content in the

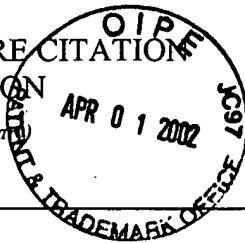
EXAMINER: <i>R. Gitomer</i>	DATE CONSIDERED: <i>6/25/03</i>
-----------------------------	---------------------------------

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Form PTO-1449

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)



Docket Number 432722002601

Application Number 10/050,425

Applicant

Gregory R. MUNDY et al.

Filing Date January 15, 2002

Group Art Unit 1646

Mailing Date March 22, 2002

RECEIVED

APR 03 2002

TECH CENTER 1600/2900

		Rat:Study of Accuracy and Precision," BONE AND MINER (1994) 26:61-68
726	41.	Combaret, L. et al., "Manipulation of the Ubiquitin-Proteasome Pathway in Cachexia: Pentoxyfylline Suppresses the Activation of 20S and 26S Proteasomes in Muscles from Tumor-Bearing Rats," MOL BIOL REP (1999) 26:95-101
	42.	Coux, O. et al., "Structure and Functions of the 20S and 26S Proteasomes," AN REVIEW BIOCHEM (1996) 65:801-847
	43.	Craiu, A. et al., "Lactacystin and Clasto-Lactacystin β -Lactone Modify Multiple Proteasome β -Subunits and Inhibit Intracellular Protein Degradation and major Histocompatibility Complex Class I Antigen Presentation," J BIOL CHEM (1997) 272:13437-13445
	44.	Cui et al., "Lovastatin Prevents Steroid-Induced Adipogenesis and Osteoporosis," ASBMR 18th Annual Meeting (September 1996) J BONE MINER RES (1996) 11(S1):S510
	45.	Ducy et al. "Increased Bone Formation in Osteocalcin-deficient Mice," NATURE (1996) 382:448-452
	46.	Edelman et al., "Controlled and Modulated Release of Basic Fibroblast Growth Factor," BIOMATERIALS (1991) 12:619-626
	47.	Elofsson et al., Chemistry & Biology (1999) 6:811-822
	48.	Ferretti, "Perspectives of pQct Technology Associated To Biomechanical Studies in Skeletal Research Employing Rat Models," BONE (1995) 17:353S-364S
	49.	Figueiredo-Pereira et al., "A New Inhibitor of the Chymotrypsin-Like Activity of the Multicatalytic Proteinase Complex (20S Proteasome) Induces Accumulation of Ubiquitin-Protein Conjugates in a Neuronal Cell," J NEUROCHEM (1994) 63:1578-1581
	50.	Franzoso et al., "Requirement for NF-kB in Osteoclast and B-Cell Development," GENES AND DEV (1997) 11:3482-3496
	51.	Garrett et al, "Specific Inhibitors of the Chymotryptic Component of the Proteasome are Potent Bone Anabolic Agents In Vivo" Journal of Bone and Mineral Research (2000) 15(Suppl.1):S197
	52.	Gat et al., "De Novo Hair Follicle Morphogenesis and Hair Tumors in Mice Expressing a Truncated β -Catenin in Skin," CELL (1998) 95:605-614
	53.	Ghosh-Choudhury et al., "Immortalized Murine Osteoblasts Derived from BMP 2-T-Antigen Expressing Transgenic Mice," ENDOCRINOLOGY (1996) 137:331-339
	54.	Gowan et al., "Actions of Recombinant Interleukin 1, Interleukin 2, and Interferon- γ on Bone Resorption in Vitro," J IMMUNOL (1986) 136:2478-2482
	55.	Groll et al., J. Am. Chem. Soc. (2000) 122:1237-1238
	56.	Guijarro et al. "Lovastatin Inhibits Lipopolysaccharide-induced NF-kB Activation in Human Mesangial Cells," NEPHROL DIAL TRANSPLANT (1996) 11:990-996
✓	57.	Gupta et al., "Oral Cyclosporine for the Treatment of Alopecia Areata," J AMER ACAD OF DERMATOLOGY (1990) 22(2):242-250

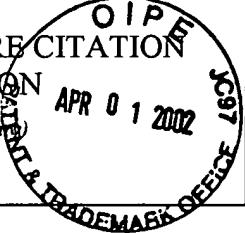
EXAMINER:

R Giromen

DATE CONSIDERED:

6/25/03

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>			Docket Number 432722002601	Application Number 10/050,425
			Applicant Gregory R. MUNDY et al.	
			Filing Date January 15, 2002	Group Art Unit 1646
			Mailing Date March 22, 2002	TECH CENTER 1600/2900

✓ 58.	Hardy et al., "The Secret Life of the Hair Follicle," TRANS GENET (1992) 8:55-61
59.	Harris et al. "Effects of Transforming Growth Factor β on Bone Nodule Formation and Expression of Bone Morphogenetic Protein 2, Osteocalcin, Osteopontin, Alkaline Phosphatase, and Type I Collagen mRNA in Long-Term Cultures of Fetal Rat Calvarial Osteoblasts," J BONE MINER RES (1994) 9:855-863
60. ✓	Hilt, W. et al., "Proteasomes: Destruction as a Programme," TRANS BIOCHEM SCI 91(1996) 21:96-101
61. ✓	Iotsova et al., "Osteopetrosis in Mice Lacking NF- κ B1 and NF- κ B2," NATURE MED (1997) 3:1285-1289
62. ✓	Jensen, T.J. et al., "Multiple Proteolytic Systems, Including the Proteasome, Contribute to CFTR Processing," CELL (1995) 83:129-135
63. ✓	Kamiya et al., J. Derm. Sci. (1998) 17:54-60
64.	Kim et al., "Preparation of Multivesicular Liposomes," BIOCHIM BIOPHYS ACTA (1983) 728:339-348
65.	Kimmel et al., "The Effect of Recombinant Human (1-84) or Synthetic Human (1-34) Parathyroid Hormone on the Sleton of Adult Osteopenic Ovariectomized Rats," ENDOCRINOLOGY (1993) 132:1577-1584
66.	Ksander et al., "Exogenous Transforming Growth Factor-Beta 2 Enhances Connective Tissue Formation and Wound Strength in Guinea Pig Dermal Wounds Healing by Secondary Intent," ANN SURG (1990) 211(3):288-294
67.	Laval-Jeantet et al., "Dual-EnergyX-Ray Absorptiometry of the Calcaneus: Comparison with Vertebral Dual-Energy X-Ray Absorptiometry and Quantitative Computed Tomography," CALCIF TISSUE INTL (1995) 56:14-18
68. ✓	Law et al., Mol. Cell Biol. (1992) 12:103-111
69.	Leserman et al., "Targeting to Cells of Fluorescent Liposomes Covalently Coupled With Monoclonal Antibody or Protein A," NATURE (1980) 288:602-604
70. ✓	Liptay et al., "Inhibition of Nuclear Factor-Kappa B and Induction of Apoptosis in T-Lymphocytes by Sulfasalazine," BR J PHARMACOL (1999) 128(7):1361-1369
71.	Lutz, "Effects of Cyclosporin A on Hair," SKIN PHARMACOLOGY (1994) 7:101-104
72.	Majeska et al., "Maintenance of Parathyroid Hormone Response in Clonal Rat Osteosarcoma Lines," EXP CELL RES (1978) 111:465-467
73. ✓	Maupin-Furlow, J.A. et al., "A Proteasome from the methanogenic Archaeon Methanosaeca thermophila," J BIOL CHEM (1995) 270:28617-28622
74.	Mayer et al., "Vesicles of Variable Sizes Produced by a Rapid Extrusion Procedure," BIOCHIM BIOPHYS ACTA (1986) 858:161-168
✓ 75.	Meng et al., "Epoxomicin, a Potent and Selective Proteasome Inhibitor, Exhibits In Vivo

EXAMINER: *R. Gittman*

DATE CONSIDERED:

6/25/03

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Form PTO-1449

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary) APR 01 2002

Docket Number 432722002601

Application Number 10/650,426

Applicant

Gregory R. MUNDY et al.

Filing Date January 15, 2002

Group Art Unit 1646

Mailing Date March 22, 2002

APR 03 2002
TECH CENTER 1600/2000

		Antiinflammatory Activity Proceedings of the National Academy of Sciences of the United States (1999) 96(18):10403-10408
PLG	76.	Mundy et al., Science (1999) 286:1946-1949
	77.	Murray et al., "The Ubiquitin-Proteasome System and Cellular Proliferation and Regulation in Osteoblastic Cells," EXPERIMENTAL CELL RESEARCH (1998) 242:460-469
	78.	Olson et al., "Preparation of Liposomes of Defined Size Distribution by Extrusion Through Polycarbonate Membranes," BIOCHIM BIOPHYS ACTA (1979) 557:9-23
	79.	Orford et al., "Serine Phosphorylation-Regulated Ubiquitination and Degradation of β -Catenin," J BIOL CHEM (1997) 272:24735-24738
	80.	Ozaki et al., "NF- κ B Inhibitors Stimulate Apoptosis of Rabbit Mature Osteoclasts and Inhibit Bone Resorption by these Cells," FEBS LETTERS (1997) 410:297-300
	81.	Pahl et al., "The Immunosuppressive Fungal Metabolite Gliotoxin Specifically Inhibits Transcription Factor NF- κ B," J EXP MED (1996) 183:1829-1840
	82.	Patent Abstracts of Japan (August 12, 1993) 17:436 (C-1096)
	83.	Patent Abstracts of Japan (June 20, 1987) 11:193 (C-430)
	84.	Patent Abstracts of Japan (April 25, 1986) 10:112 (C-342)
	85.	Peters, J. "Proteasomes: Protein Degradation Machines of the Cell," TRENDS BIOCHEM SCI (1994) 19: 377-382
	86.	Rickard et al., "Induction of Rapid Osteoblast Differentiation in Rat Bone Marrow Stromal Cell Cultures by Dexamethasone and BMP-2," DEVELOP BIOL (1994) 161:218-228
	87.	Sampath et al., "Isolation of Osteogenin, an Extracellular Matrix-Associated, Bone-Inductive Protein, by Heparin Affinity Chromatography," PROC NATL ACAD SCI USA (1987) 84:7109-7113
	88.	Sin, N. et al., "Total Synthesis of the Potent Proteasome Inhibitor Epoxomicin: A Useful Tool for Understanding Proteasome Biology," BIORG MED CHEM LETT (1999) 9:2283-2288
	89.	Szoka et al., "Procedure for Preparation of Liposomes With Large Internal Aqueous Space and High Capture by Reverse-Phase Evaporation," PROC NATL ACAD SCI USA (1978) 75:4194-4198
	90.	Tencer et al., "The Effect of Local Controlled Release of Sodium Fluoride on the Stimulation of Bone Growth," J BIOMED MAT RES (1989) 23:571-589
	91.	Vinitsky et al., "Inhibition of the Proteolytic Activity of the Multicatalytic Proteinase Complex (Proteasome) by Substrate-Related Peptidyl Aldehydes," J BIOL CHEM. (1994) 269(47):29860-29866
	92.	Wahl et al., "Sulfasalazine: A Potent and Specific Inhibitor of Nuclear Factor Kappa B," J CLIN INVEST (1998) 101(5):1163-1174
✓	93.	Wang et al., "Lipid Clearing Agents in Steroid-Induced Osteoporosis," J FORMOS MED ASSOC (1995) 94:589-592

EXAMINER:

R. G. Tomanen

DATE CONSIDERED:

6/25/03

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Form PTO-1449

Docket Number 432722002601

Application Number 10/050,425

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

Applicant

Gregory R. MUNDY et al.

APR 01 2002

Filing Date January 15, 2002

APR 03 2002

Mailing Date March 22, 2002

Group A Art Unit 1646

TECH CENTER 1600/2900

<i>RL</i>	94.	Wojcik et al., "Ubiquitin-Mediated Proteolysis Centers in HeLa Cells: Indication from Studies of an Inhibitor of the Chymotrypsin-Like Activity of the Proteasome," EUR J CELL BIOL (1996) 71:311-318
<i>RCG</i>	95.	Wozney, "The Bone Morphogenetic Protein Family as Osteogenesis," MOLEC REPROD DEV (1992) 32:160-167

EXAMINER:

R. Gismoner

DATE CONSIDERED:

6/25/03

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.